



1/3

GAATTCCGGGTGGGTAGGTCGGGCAGGGTAGGACAGGCCTAAGAGAGAGGCCGGACAGACCTCC
TTTGGAAGCAGCCACTTCTGGTCCCCATCCCTGGAGCGATCGAGCGCAGGATCTGCTGTCCCAT
GGGACAGCAGATCTCTCTTCCCAGTGCACAGCTTCTCCTCTGCCTGTTTTCCCTGCTTCCAGTG
CTCCAGGTGGCCCAACCAGGCCAGGCACCCAGGACCAGCCCTGTGGACACTTTTGGAGCAGT
ACTGCCACAGGACCACAATTGGGAATTTTTAGGTCCCTACACCTACTGCAACACGACCTTGA
CCAGATCGGGACCTGCTGGCCACAGAGCGCACCCGGAGCCCTAGTAGAGAGACCCTGCCCCGAG
TACTTCAATGGCATCAAGTACAACACGACCCGGAATGCCTACAGAGAGTGCCTGGAGAACGGGA
CCTGGGCCCTCAAGGGTCAACTACTCAGCTGCGAACCCATTTTGGATGACAAGCAGAGAAAGTA
TGACCTGCAATTACCGAATCGCCCTCATTTGTCAACTACCTGGGTCACTGTGTTTTCCGTGGTGGCC
CTGGTGGCCGCTTTCCTGCTTTTCTAGTGTGCGGAGTATCCGCTGCCTGAGGAATGTGATCC
ACTGGAACCTCATCACCACCTTCATTTCTGAGAAACATCGCTGGTTTCTGCTGCAACTCATCGA
CCACGAAGTGCACGAGGGCAATGAGGTCTGGTGCCGTGCATCACCACCATCTTCAACTATTTT
GTGGTACCAACTTCTTCTGGATGTTTGTGGAGGGCTGCTACCTGCACACGGCCATTGTGATGA
CGTACTCCACAGAGCACCTGCGCAAGTGGCTTTTCTCTTCAATTGGATGGTGCATTCCCTGCC
TATCATCATCGCTGGGCAGTTGGCAAACCTCTACTATGAGAATGAGCAGTGTGTTTGGCAAG
GAAGCTGGTGATTTGGTGGACTACATCTACCAGGGCCCCGTCATGCTTGTGCTGTTGATCAATT
TTGTATTTCTGTTTAAACATCGTCAGGATCCTGATGACGAAGTTACGAGCATCCACCAGTCCGA
GACAATCCAATACAGGAAGGCAGTGAAGGCCACGCTGGTCCTCTCCCCCTGTTGGGCATCACC
TACATGCTCTTCTTTGTCAATCCTGGCAGGACGACCTGTCCAGATTGTGTTTCACTTCTCA
ACTCTTCTCTGAGTCTTCCAGGGTTTCTTTGTGTCCGTTTTTCTACTGCTTCTTCAATGGAGA
GGTGCGCGCGGCCCTGAGAAAGCGGTGGCACTCGGGCAGGACCACCACGCCCTCCGGGTGCCT
GTGCGCCGGGCCATGTCCATCCCTACGTGCCCCACAGGATCAGCTTCCACAGCATCAAGCAGA
CAGCTGCTGTGTGACCCTCTGTGACCGTCTGCCCCGAGTCCACCCTGAGGCAGCTTCTCCAT
CCTTTACAGCCTTCCCCGGGTCTCTTGTCTACCCCTGACCCACAGGTACAAGGTACAGGAGAA
GGGAGGAGAACGAACACTCCC (SEQ ID NO:1)

FIGURE 1

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

GAATTCGGGGTGGGTAGGTCGGGCAGGGTAGGACAGGCCCTAAGAGAGAGGCCCGACAGAC
 CTCCTTTGGAAGCAGCCACTTCTGGTCCCCATCCCTGGAGCGATCGAGCGCAGGATCTGC
 TGTCCCATGGGACAGCAGATCTCTCTTCCAGTGACAGCTTCTCCTCTGCGCTGTTTCC
 CTGCTTCCAGTGCTCCAGGTGGCCCAACAGGCCAGGCACCCAGGACCAGCCCTGTGG
 ACACCTTTTGGAGCAGTACTGCCACAGGACCACAATTGGGAATTTTTCAGGTCCCTACACC
 TACTGCAACACGACCTTGGACCAGATCGGGACCTGCTGGCCACAGAGCGCACCCGAGCC
 CTAGTAGAGAGACCGTGCCCGAGTACTTCAATGGCATCAAGTACAACACGACCC[GGAA
 TCCTTACAGAGAGTGCCTGGA]GACCGGGACCTGGGCTCAGGGSTCACTACTCAGACT
 GCGAACCCCTTTTGGATGACAAGCAGAGAAAGTATGACCTGCATTACCGAATCGCCCTCA
 TTGCTCACTACTCTGGGTCACTGTGTTCCGTGCTGGCCCTGGTG[GCCTGCTTCTGCTT
 TTCCTAGTGTCTGG]GAGTATCCGCTGCCTGAGGAATGTGATCCACTGGAACCTCATCAC
 CACCTTCACTTCTGAGAACATCGCGTGGTTCCTGCTGCAACTCATCGACCCAGGAAGTGCA
 CGAGGGCAATGAGGTCTGGTGCGCTGCATCACCACCATCTTCAACTATTTTGTGGTCA
 CAACTTCTTCTGGATGTTTGTGAGGGCTGCTACCTGCACACGGCCATTGTCTATGACGTA
 CTCACAGAGCACTGCGCAAGTGGCTTTTCTCTTCATTGGATGGTGCAATTCCTCGCC
 TATCATCATCGCTGGGCAGTTGGCAACTCTACTATGAGAATGAGCAGTGTCTGTGCTGTT
 CAAGGAAGCTGGTGATTGTGGTGACTACATCTACCAGGGCCCCGTCATGCTACGAGCATC
 GATCAATTTGTATTTCTGTTTAACTCGTCAGGATCCTGATGACGAAGTTACGAGCATC
 CACCACTGTCGAGACAATCCAATACAGGAAGGCAGTGAAGGCCAGCTGTCTCTCTCC
 CCTGTGGGCATCACCTACATGCTCTTCTTTGTCAATCCTGGCAGGACGACTGTCCCA
 GATTGTGTTTCACTACTTCAACTCTTCTCTGAGTCTTCCAGGGTTTCTTTGTGTCCTG
 TTTTACTGCTTCTTCAATGGAGAGGTGCGCGCGGCCCTGAGAAAGCGGTGCACTCGGG
 GCAGGACCAACAGGCCCTCCGGGTGCTGTGCGCGGGCCATGTCCATCTCTACGTGCGG
 CACAGGATCAGCTTCCACAGCATCAAGCAGACAGCTGCTGTGACCTCTGTCAACGCT
 CTGCCCGGAGTCCACCACTGAGGCAGCTTCTCATCTTTACAGCCTTCCCTGGGTCC
 TCCTTGCTACCTGACCACAGGTACAAGGTACAGGAGAGGGAGGAGAACGACACCTCC
 C

FIGURE 2A

Gene Sequence Structure

*

441 bp

Sequence Deleted

582 bp

Size of full-length
cDNA: 1557 bp

Targeting Vector* (genomic sequence)

Construct Number: 3050

Arm Length:

5': 3.1 kb

3': 2.5 kb

———— Targeting Vector
 - - - - Endogenous Locus

* Not drawn to scale

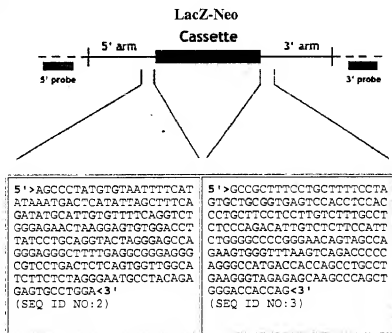


FIGURE 2B